

28	118	3.4	1361	4	US-07-757-022B-40	Sequence 40, Appl
29	118	3.4	1363	4	US-07-757-022B-52	Sequence 52, Appl
30	118	3.4	1404	4	US-07-757-022B-2	Sequence 2, Appl
31	118	3.4	1404	4	US-07-757-022B-62	Sequence 62, Appl
32	118	3.4	1404	4	US-10-164-595-78	Sequence 78, Appl
33	117	3.4	1426	3	US-09-136-574A-43	Sequence 43, Appl
34	117	3.4	8991	4	US-08-714-741-32	Sequence 32, Appl
35	116.5	3.4	1964	2	US-08-790-912-3	Sequence 3, Appl
36	116.5	3.4	2052	2	US-08-790-912-2	Sequence 2, Appl
37	116	3.3	1384	3	US-08-976-255-11	Sequence 11, Appl
38	115.5	3.3	1719	2	US-08-459-568-4	Sequence 4, Appl
39	115.5	3.3	1719	2	US-08-399-411-4	Sequence 4, Appl
40	115.5	3.3	1719	3	US-08-516-859A-4	Sequence 4, Appl
41	115.5	3.3	1719	4	US-09-586-472-4	Sequence 4, Appl
42	115.5	3.3	1719	4	US-09-528-706-4	Sequence 4, Appl
43	114.5	3.3	325	4	US-09-510-031A-2	Sequence 2, Appl
44	114.5	3.3	641	3	US-08-961-083-160	Sequence 160, App
45	114.5	3.3	641	4	US-09-536-784-160	Sequence 160, App

ALIGNMENTS

RESULT 1
 US-08-993-228-21
 Sequence 21 Application US/08993228.
 Patent No. 5976838

GENERAL INFORMATION:

APPLICANT: Jacobs, Kenneth
 APPLICANT: McCoy, John M.
 APPLICANT: Lavallie, Edward R.
 APPLICANT: Racine, Lisa A.
 APPLICANT: Merberg, David
 APPLICANT: Treacy, Maurice
 APPLICANT: Spaulding, Vicki
 APPLICANT: Agostino, Michael J.

TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES

TITLE OF INVENTION: ENCODING THEM

NUMBER OF SEQUENCES: 33

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genetics Institute, Inc.
 STREET: 87 CambridgePark Drive
 CITY: Cambridge
 STATE: MA
 COUNTRY: U.S.A.

ZIP: 02140

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/993,228

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Sprunger, Suzanne A.

REGISTRATION NUMBER: 41,323

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 498-8284

TELEFAX: (617) 876-5851

INFORMATION FOR SEQ ID NO: 21:

SEQUENCE CHARACTERISTICS:

LENGTH: 828 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

Query Match 41.6%; Score 1446.5; DB 2; Length 828;
 Best Local Similarity 57.7%; Pred. No. 1.8e-126;
 Matches 300; Conservative 65; Mismatches 124; Indels 31; Gaps 10;

US-08-993-228-21

1 MRQVVPVYCRPLVEKDPPTMKLWCAAGVNLSGWRPNEDDAGNGVKPAP-GRDPLTCREG 59
 314 MKNLRLPVPTYLRLPDLDEKDTSMKLWCAVGVLNSGGKTR--DGGSVVGASVFPYKVAGLDTEG 371

60 DGEPKSAHTSPE-----KKKAKELPEMDATSSRVRWILSTLTTSKXVIIIDANGPGRVVD 113
 432 SFTVCNSHVLCTIASVPGARETDYPAGEDLSESGQVDKASLCGSMTSNSAETDSLLGGIT 491

61 GEPKSAHTSPEKKKAK-----ELPEMDATSSR-----VWILTSLTTSKXVIIIDANQPGT 110
 435 --PSAAHETTQTQSAETVVFQSPSTESETARSQSQEQPYWFTQTPSTEQAALTQTLQAEF 492

62 NVPVPVYCRPLVEKDPPTMKLWCAAGVNLSGWRPNEDDAGNGVKP--APGRDPLTCREGD 60
 394 SVPVQETDRTLSTTLPPL-----TPGESE--NTLFPTTAPGISTET-----434

63 GEPKSAHTSPEKKKAK-----ELPEMDATSSR-----VWILTSLTTSKXVIIIDANQPGT 110
 492 VVDDQFTVCNAHVLCIASSIPAA-----SDSDYPPGEMFLDSDVNPED----PGADGVL- 158

64 QY 221 PSEPETATLRRPGPLTEHVFTDPAFTP-----SSGPQPGSENGPEPDSSSTRP-BPEPSSGD 274
 549 SAEDTVDISQTVYTYEHVFTDPLGVQIPEDSLSPVYQSSNDSDAYKDQISVLPNEDLYRE 608

65 QY 275 PTGAGSSAAPTMLGAQNGWLYVHSAVANWKKLHSIKLKDSVLSSLVHKGRVLYVALADG 334
 492 VVDDQFTVCNAHVLCIASSIPAA-----SDSDYPPGEMFLDSDVNPED----PGADGVL- 158

66 QY 609 EAQRMISSLQPTMLGAQNGCLYVHSVAQWRKLHSIKLKDSVLSSLVHKGRVLYVALADG 668

67 QY 335 TLAIFHRGEDGQWLDSNYTHLMDLGPHPHHSIRCMAYVYDRWCGYKKNKHYVIQPKTMQIEK 394
 669 TLAIFHRGDGQWLDSNYTHLMDLGPHPHHSIRCMVTHDKWCGYRNKLYVQPKAMIEK 728

68 QY 395 SFDAAHPRESOVROLAWIGDGVWVSIRLDSTLRLYHAHTHQLQDVDFIEPYVSKMLGTRGK 454
 729 SFDAAHPRESOVROLAWIGDGVWVSIRLDSTLRLYHAHTHQLQDVDFIEPYVSKMLGTRGK 788

69 QY 455 LGFSFVRIITALVAGSRSLWVGTINGNVVISIPLTETVVLHR 494
 789 LGFSFVRIITALMVSCNRNLWVGTINGNVVISIPLTESKYIFR 828

70 QY 299 SAVANWKCLHSIKLKDSVLSSLYHVK-----SAAPTMWLGAQNGWLYTH 298
 724 SSSTMMPETAQSTPLASONPTSSGTGTHNTEPRTYVQTTTPHQKLYTENKTLSFP 724

71 QY 725 TVVSEF-----HEMSTAESQTPLLDVKIVEVKFNSNDGEVTATCVSTVKS PYRVETWNKVSDL 780

72 QY 329 VALID-----GTLAIIFHRGEDGQWLDSNYTHLMDLGPHPHHSIRCMAVV--YDRWCGYRNK 381
 781 VDVMDEISGNNSPAGVNSNE--KXWOKCLYXRYVTDGRTSVQLMCLSCSTSPEPYCULFDTS 838

73 QY 382 VHVIQPKTMQIEKSEDAHPRR-----ESQVRQLAWIGDGVWVSIRLDSTLRLYHAHT 433
 839 L-TAREKDIAPELYFTSDPQTAYTITLPGVSVPRFEWSLNNSLPFYLTATTVSHTAG 897

74 QY 434 HQHLQDVDI---EPYVSKMLGTRGKLGFSFVRITALLVAGSRL-----WVGTGNG 479
 898 QSTWVKSSARAGEAWIS-----GR-GGNIYECTVLLISGTRVTRKERCLNTNWIAVENG 951

75 QY 299 SAVANWKCLHSIKLKDSVLSSLYHVK-----SAAPTMWLGAQNGWLYTH 298
 828 RESULT 2
 PCT-US96-03916-6

76 ; Sequence 6, Application PC/TUSS9603916
 77 ; GENERAL INFORMATION:
 78 ; APPLICANT: Wild, Martha A.
 79 ; TITLE OF INVENTION: RECOMBINANT INFECTIOUS LARYNGOTRACHEITIS VIRUS
 80 ; NUMBER OF SEQUENCES: 72
 81 ; CORRESPONDENCE ADDRESS:
 82 ; ADDRESSEE: Cooper & Dunham LLP
 83 ; STREET: 1185 Avenue of the Americas
 84 ; CITY: New York
 85 ; STATE: New York
 86 ; COUNTRY: U.S.A.
 87 ; ZIP: 10036

88 ; COMPUTER READABLE FORM:
 89 ; MEDIUM TYPE: Floppy disk
 90 ; COMPUTER: IBM PC compatible
 91 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 92 ; SOFTWARE: Patent In Release #1.25
 93 ; CURRENT APPLICATION DATA:
 94 ; APPLICATION NUMBER: PCT/US96/03916
 95 ; FILING DATE: 23-MAR-1995
 96 ; CLASSIFICATION:
 97 ; PRIORITY APPLICATION DATA:
 98 ; APPLICATION NUMBER: US 08/126, 597
 99 ; FILING DATE: 24-SEP-1993
 100 ; ATTORNEY/AGENT INFORMATION:
 101 ; NAME: White, John P.
 102 ; REGISTRATION NUMBER: 28, 678
 103 ; REFERENCE/DOCKET NUMBER: 39116-A
 104 ; TELECOMMUNICATION INFORMATION:
 105 ; TELEPHONE: (212) 278-0400
 106 ; TELEFAX: (212) 391-0525

107 ; RESULT 3
 108 ; PCT-US96-03916-66
 109 ; Sequence 66, Application PC/TUSS9603916
 110 ; GENERAL INFORMATION:
 111 ; APPLICANT: Wild, Martha A.
 112 ; APPLICANT: Cochran, Mark D.
 113 ; TITLE OF INVENTION: RECOMBINANT INFECTIOUS LARYNGOTRACHEITIS VIRUS
 114 ; NUMBER OF SEQUENCES: 72
 115 ; CORRESPONDENCE ADDRESS:
 116 ; ADDRESSEE: Cooper & Dunham LLP
 117 ; STREET: 1185 Avenue of the Americas
 118 ; CITY: New York
 119 ; STATE: New York
 120 ; COUNTRY: U.S.A.
 121 ; ZIP: 10036
 122 ; COMPUTER READABLE FORM:
 123 ; MEDIUM TYPE: Floppy disk
 124 ; COMPUTER: IBM PC compatible
 125 ; OPERATING SYSTEM: PC-DOS/MS-DOS

C 28	51.6	1.4	909	4	US-09-252-991A-13568
C 29	51.6	1.4	3129	4	Sequence 13568, A
C 30	51.6	1.4	4188	4	Sequence 13873, A
C 31	51.6	1.4	8211	4	Sequence 13774, A
C 32	50.4	1.4	1317	4	Sequence 13656, A
C 33	50.2	1.4	1416	4	Sequence 6463, AP
C 34	50.2	1.4	1512	4	Sequence 2955, AP
C 35	50	1.4	7218	1	Sequence 2728, AP
C 36	49.8	1.3	2435	4	Sequence 14, App1
C 37	49.8	1.3	152331	3	Sequence 134, App1
C 38	49.4	1.3	3177	1	Sequence 16, App1
C 39	49	1.3	364	4	Sequence 4, Appli
C 40	48.8	1.3	408	4	Sequence 17202, A
C 41	48.8	1.3	1752	4	Sequence 3047, AP
C 42	48.8	1.3	13842	3	Sequence 17, App1
C 43	48.8	1.3	36778	3	Sequence 30, App1
C 44	48.8	1.3	38506	3	Sequence 5, Appli
C 45	48.8	1.3	38506	4	Sequence 19, Appli
					Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-08-993-228-20
; Sequence 20, Application US/08993228
; Patent No. 5976838
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: Lavallie, Edward R.
; APPLICANT: Racine, Lisa A.
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Spaulding, Vicki
; APPLICANT: Agostino, Michael J.
TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genetics Institute, Inc.
STREET: 87 CambridgePark Drive
CITY: Cambridge
STATE: MA
COUNTRY: U.S.A.
ZIP: 02140

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/993, 228
FILING DATE:
CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
NAME: Springer, Suzanne A.
REGISTRATION NUMBER: 41,323
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8284
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 3113 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-993-228-20

Query Match 10.0%; Score 370.2%; DB 2;
Best Local Similarity 56.4%; Pred. No. 3.4e-71;
Matches 874; Conservative 0; Mismatches 608; Indels 69; Gaps 7;

1228 GACGGGACCTGGCCATCTCCACCGTGGCAAGATGGCCAGTGGATCTGAGCAACTAT 1287
 QY
 Db 2115 GACGGGACCTGGCAATCTTCACAGGGAGTGGATGGGATTGTCAAATCT 2174
 b 1097 GATCTCTAGACCTTGGACGGCCTCATCATCCATTGAGCTGAGTAAATTATCTGAGT 1097
 b 1157 GAAAAAGATAACATCAATGAAGCTGTGCTGGAGTAAATTATCTGAGT 1157
 b 1346 CGGTGGTGGTGGCTAACAGAAAGCCATGAGATA 1407
 QY
 Db 2235 AAAGTCTGGTGTGGCTATGAAACAAATCTATGGACGCCAAGGGCTGAAATA 2294
 b 1288 CACTTAATGGACCTGGCCACCCGACACTCCATCCGCTGATGGCTGTGAGAC 1347
 QY
 Db 2175 CACTCTTAGACCTTGGACGGCCTCATCATCCATTGAGCTGAGT 2234
 b 1348 CGGTGGTGGTGGCTAACAGAAAGCCATGAGATA 1407
 QY
 Db 2235 AAAGTCTGGTGTGGCTATGAAACAAATCTATGGACGCCAAGGGCTGAAATA 2294
 b 1408 GAGAAGTCATTGACGCCACCCGGGGAGAGCCAGGTGGCTGGATCTGGCTGGATC 1467
 QY
 Db 2295 GAGAAATCTTGTGATGCACATGCCAGGAAGGAGGCCAAGTGAGCAGTTGGTGGGTG 2354
 b 1468 GGCATGGGTTATGGGTGCTTACCGCTCACCCCTGAGGCTCTACCATGCACAC 1527
 QY
 Db 2355 GGGATGGCTGGGGTCCATTGGATTCTAGCTCCTCATGCACAC 2414
 b 1528 ACCCACCGCATCTACGGGACCTGAGCATTGAGCCTACGGTGGACATTGAGT 1587
 QY
 Db 2415 ACTTATCACATCTACAGATGTGGACATTGAGCTTATGTAAGCAAAATGTTAGTACT 2474
 b 1588 GGCAGGGTGGTTTCCTCTGTACGGCATCACGGCTGTGCTGGGGAGGCCGCTC 1647
 QY
 Db 2475 GGAAAACCTGGCTTCCTTGTGAGATTACAGCTCTATGGTGTCTTGTAAATCGTTG 2534
 b 1648 TGGTGGGACCCGGAACGGGAAACGGAGTGGTACATCTCCATGCCAGAGACT 1698
 QY
 Db 2535 TGGTGGGACAGGAATGGTCATTCCATCCATTGAGAAAGT 2585
 b
 RESULT 2
 US-09-023-173-4
 ; Sequence 4, Application US/09023173
 ; Patent No. 6066781
 ; GENERAL INFORMATION:
 ; APPLICANT: Sutliff, Thomas D.
 ; APPLICANT: Rodriguez, Raymond L.
 ; TITLE OF INVENTION: Production of Mature Proteins
 ; in Plants
 ; NUMBER OF SEQUENCES: 23
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Dehlinger & Associates
 ; STREET: 350 Cambridge Ave., Suite 250
 ; CITY: Palo Alto
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94306
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER SYSTEM: DOS
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FastSEQ for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/023,173
 ; FILING DATE: 13-FEB-1998
 ; CLASSIFICATION: 435
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: 60/038,168
 ; FILING DATE: 13-FEB-1997
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Petithory, Joanne R
 ; REGISTRATION NUMBER: P42995
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 650-324-0880
 ; TELEFAX: 650-324-0960
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1140 base pairs
 ; TYPE: nucleic acid
 ;
 214 GGCAGGAGAACACGGGATGAAAGAACGTCGGGCTGGCTGAGCTGCTGGT 273
 Y
 1038 GGTCAAGGTGAAATAAGTAAACCTTACCTGCTGTCTATCTGAGACCTCTGAGT 1097
 b 274 GAGAAGCCCCACCATGAAGCTGTGTTGCGGGGTGAAACCTGAGGGTGGAGG 333
 Y
 1098 GAAAAAGATAACATCAATGAAGCTGTGCTGGAGTAAATTATCTGAGT 1157
 b 334 CCCATGAGGAGCAGCTGGGAATGGAG-----TAAGCCAGGCCAACGGCCG 381
 Y
 1158 ACCAGAGATGGTGGTTCTGTTGGAGCAAGTGTATTACAGGATGTGCTGGTTG 1217
 b 382 GATCCCCCTGACCTTGCGACCGGAAAGGAGACGGGAGCCCACACGCTCTCCC 441
 Y
 1218 GATACAGAAGGCAAGTAAACAGCGGAAGTGCCTCTCAAGAGTACTTTAGATAAGTACATCAG 1277
 b 442 GAG---AAGAAGAAGGCCAAGGAGCTCCCTGAAATGGACGGCACCTCCAGCGGGTGTGG 498
 Y
 1278 GAACTTAAGGGAAACGGCAAGGAGTTAAAATCAAGAAGAAATTATCCAAGTCAGTGTGG 1337
 b 499 ATCCCTGACCGACCCCTGACCACCAAGGAGCAAGGGTGTGATCATCGACGCCAACCGCCGGGC 558
 Y
 1338 ATCTGTACCGACACTCATCGGCTACAAAGTCTTATTATGATGTTGTTGACCTGGC 1397
 b 559 ACCGGTGGGACCGAGTTCACGGTCTGCAACCGGCACTCCAGCATCCCC 618
 Y
 1398 AACATCCTAGACAGTTCACTGTTGCAACTCTCATGTTGCAACTCTGCAAGTGTGCCA 1457
 b 619 GCGGCCAGGACAGGACTACCCCTCCCGG-GGAGATGTTCTGGACAGGCACGTGAAACCC 677
 Y
 1458 GGTGACGGAAAACAGAACTACCTGCAAGGAAAGATCTGGTCAGGTAGAC 1517
 b 678 AGAGGACC-----CGGGCCAGATGGCGTGTG 705
 Y
 1518 AAAGCATCTTATGTGGAAGTATGACAAGAACAGTCAGAGAGAACAGACAGCTGTTA 1577
 b 706 GCGGGTATCACCCCTGGCTGGCTGCAAGTGGGGGAACTGTGTC 765
 Y
 1578 GAGGGCATCACAGTGGTGGTTCTGAGAAGGTGTGACGGAGCTGCCACTTCCCT 1637
 b 766 TCCCGAGGGACACCCCATGCTAGACAAGGGGCAAGGGGAGGTGGCCACCATGCCAAC 825
 Y
 1638 AGTACAATGGTGTGATGGATAACCAACCGAAATGGAAGCAGAAAATAGT 1697
 b 826 GGGAAAGGTCAACCGTCCAGTCAGAGAACAGTGGCCACAGGGGAGGTGGCCAGAC 885
 Y
 1698 GAGGTGTGAAATGTTCAACAGGAGAAGCAACTGAAGTACAGAAGGG--AAT 1754
 b 886 CCTGGGGCCAGGGAGGCCAGAGCACGCCACATTGGGGCCCTCTCACAGGGCACGTC 945
 Y
 1755 GGGGGTCAGCTGAAGAACAGTGGCACATCTCCAAACTGGGTCTACAGAGCATGTC 1814
 b 946 TTCACTGACCC-----AGCCCGAACCCGCTCTGGCTGCAACCCACCATGGCTGG 1934
 Y
 1815 TTACAGATCTTGGAGTTCACTCCAGATCCCAGAAAGACCTCTCCCAAGTGTGAGCTGAGC 1874
 b 991 AGCGAGAACGGGCCAGAGCAGCCACAGGGCAACGGCCA--GAGCCAGAGCCAGC 1047
 Y
 1875 AATGACTCAGATGCCATAAAGATCAAATATGACTGCCAAATGAACAGACTTGTGTG 1934
 b 1048 GGGGACCCACGGGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGA 1107
 Y
 1935 AGAGAAGAAGCCAGAAATGAGTAGTGTGCTTACATGCCAGTGTGAGCTCAAAAT 1994
 b 1108 GGTTGGCTCTATGTCAGCTGGCTGAACTCCATCAAG 1167
 Y
 1995 GGCTGGTTGATGTCATTCATCTGTAGGCCAGTGGCTGGCTGGCTGGCTGG 2054
 b 1168 CTGAAGGATTCTGTGCTGGCTGAGCTGGCAAGGGAAATGTCATCCATTAAA 1227
 Y
 2055 CTTAAAGATTCGATTCAGTATGGTACACGTGAAAGGAATGCTGGTGGCT 2114